Advanced Flood Webinar 2016 Prerequisite Homework Assignment Fundamentals of Remote Sensing

1.	Infrared, Visible, and Microwave frequencies or wavelengths refer to
	a) Satellite Sensorsb) Electromagnetic Radiationc) Satellite Orbits
2.	List the types of satellite orbits
3.	Satellite data levels L1 and L3 generally have the same spatial/temporal resolutions
	a) True b) False
4.	Radar flying on-board a satellite is
	a) An Active Sensorb) A Passive Sensor
5.	GPM provides global coverage of rainfall
	a) True b) False
6.	MODIS provides rainfall observations
	a) True b) False
7.	What do TMPA and IMERG stand for?
8.	IMERG provides half-hourly rainfall data product because GPM is in geostationary orbit
	a) True b) False
9.	TMPA and IMRGE do not provide rainfall at the same spatial resolution
	a) True b) False
10	MODIS is flying on these two satellites:
	a) Aqua and Terrab) Aqua and TRMM

	c) Aqua and GPM	
11.	Can MODIS Near-real Time Flood mapping tool be used to monitor streamflow	v'.
	a) Yes b) No	
12.	Which of the following flood monitoring tools use TRMM/GPM/GCOM-W radiometer data to provide river discharge	
	a) Dartmouth Flood Observatory (DFO)b) MODIS NRT Global Flood Mappingc) TRMM Current Heavy Rain, Flood and Landslide Estimates	
13.	TRMM and GPM have the same sensors to observe rainfall	
	a) True b) False	
14.	What are the units of streamflow in Global Flood Monitoring System?	
15.	These observational quantities from MODIS are used for inundation mapping over previously dry land	
	a) Radar Reflectivityb) Spectral Reflectancec) Brightness temperature	
16.	MOIDS NRT Tool may not be used for inundation mapping in a stormy weather even if there is inundation occurring at the surface – Why?	r
17.	CREST hydrological model is used for streamflow estimates by:	
	a) GDACS/GFDSb) SREVIRc) GFMS	

MODIS Inundation Tool provides flooding information at this spatial resolution:

18.

a)

b) c)

1 km X 1 km

250 m x 250 m

12 km x 12 km